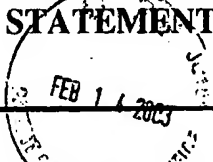
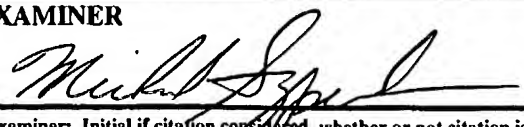


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	Applicant(s): Fayrer-Hosken et al.	Confirmation No.: 1056
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U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>MS</i>	A1	3,992,520	11/16/76	Gwatkin	—	—	—
	A2	4,436,727	03/13/84	Ribi	—	—	FEB 19 2003
	A3	4,436,728	03/13/84	Ribi et al.	—	—	—
	A4	4,520,019	05/28/85	Ribi et al.	—	—	TECH CENTER 600/2900
	A5	4,579,945	04/01/86	Schwartzman et al.	—	—	—
	A6	4,745,051	05/17/88	Smith et al.	—	—	—
	A7	4,795,634	01/03/89	Grimes et al.	—	—	—
	A8	4,803,070	02/07/89	Cantrell et al.	—	—	—
	A9	4,806,352	02/21/89	Cantrell	—	—	—
	A10	4,866,034	09/12/89	Ribi	—	—	—
	A11	4,877,611	10/31/89	Cantrell	—	—	—
	A12	4,912,094	03/27/90	Myers et al.	—	—	—
	A13	4,987,237	01/22/91	Myers et al.	—	—	—
	A14	4,996,297	02/26/91	Dunbar	—	—	—
	A15	5,219,729	06/15/93	Hodgen	—	—	—
	A16	5,312,620	05/17/94	Ribi	—	—	—
	A17	5,348,866	09/20/94	Isojima et al.	—	—	—
	A18	5,552,141	09/03/96	Ribi	—	—	—
	A19	5,565,198	10/15/96	Edwards et al.	—	—	—
	A20	5,626,846	05/06/97	Dean	—	—	—
	A21	5,637,300	06/10/97	Dunbar et al.	—	—	—
<i>MS</i>	A22	5,641,487	06/24/97	Dean	—	—	—

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<i>ms</i>	A23	5,656,488	08/12/97	Curtiss, III et al.	—	—	
	A24	5,672,488	09/30/97	Dean	—	—	
	A25	5,736,141	04/07/98	Brown et al.	—	—	
	A26	5,976,545	11/02/99	Harris et al.	—	—	
	A27	5,981,228	11/09/99	Harris et al.	—	—	
	A28	5,989,550	11/23/99	Harris et al.	—	—	
	A29	6,001,599	12/14/99	Harris et al.	—	—	
<i>ms</i>	A30	6,027,727	02/22/00	Harris et al.	—	—	

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							Yes	No
<i>ms</i>	B1	EP 0 324 455 A2	07/19/89	EPO	—	—		
	B2	EP 0 599 822 A2	06/01/94	EPO	—	—		
	B3	GB 1 504 259	03/15/78	GB	—	—		
	B4	WO 89/03399 A1	04/20/89	PCT	—	—		
	B5	WO 93/14786 A1	08/05/93	PCT	—	—		
	B6	WO 93/25231 A1 /	12/23/93	PCT	—	—		
	B7	WO 94/11019 A1	05/26/94	PCT	—	—		
	B8	WO 99/34825 A1	07/15/99	PCT	—	—		
	B9	WO 00/37100 A2, A3	06/29/00	PCT	—	—		
<i>ms</i>	B10	WO 01/02000 A3	01/11/01	PCT	—	—		

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<u>MP</u>	B11	WO 01/02006 A2, A3 J	01/11/01	PCT	—	—		
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OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

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<u>MP</u>	C1	Aitken et al., "The potential of the zona pellucida as a target for immunocontraception," <i>Am. J. Reprod. Immunol.</i> , 1996; 35:175-180.
	C2	Ahuja et al., "Investigation of Sperm Receptors in Hamster Zona Pellucida by Using Univalent (Fab) Antibodies to Hamster Ovary," <i>J. Reprod. Fert.</i> , 1981 Mar.; 61(2):257-264.
	C3	Altman et al., "Immunomodifiers in Vaccines," <i>Advances in Veterinary Science and Comparative Medicine</i> , Bittle et al., eds., 1989; 33:301-343.
	C4	Bagavant et al., "Antifertility effects of porcine zona pellucida-3 immunization using permissible adjuvants in female bonnet monkeys (<i>Macaca radiata</i>): reversibility, effect on follicular development and hormonal profiles," <i>J. Reprod. Fertil.</i> , 1994 Sept.; 102(1):17-25.
	C5	Bagavant et al., "Immunogenicity and contraceptive potential of a human zona pellucida 3 peptide vaccine," <i>Biol. Reprod.</i> , 1997 Mar.; 56(3):764-770.
	C6	Baldrige et al., "Effective adjuvants for the induction of antigen-specific delayed-type hypersensitivity," <i>Vaccine</i> , 1997; 15(4):395-401.
	C7	Barber et al., "Evaluation of somatic and reproductive immunotoxic effects of the porcine zona pellucida vaccination," <i>J. Exp. Zool.</i> , 2000 May 1; 286(6):641-6.
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	C9	Barber et al., "Possible mechanisms of mammalian immunocontraception," <i>J. Reprod. Immunol.</i> , 2000; 46:103-124.
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<u>MP</u>	C11	Böer et al., "Eine Übersicht über bisher in Zoologischen Gärten angewandte methoden der Kontrazeption," <i>Zool. Garten N.F.</i> , 1996; 66(2):93-105 (including English language summary).

EXAMINER <u>Michelle Lopez</u>	Date Considered <u>9/8/04</u>
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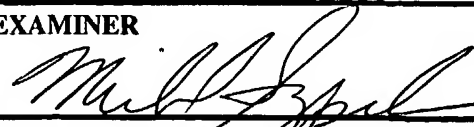
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Examiner Initial		Document Description
	C12	Booth et al., <i>Veterinary Pharmacology and Therapeutics</i> , 6 th Edition, Iowa State University Press, Ames, IA, 1988, Cover page, Publication page, Table of Contents, 4 pgs.
	C13	Brandon et al., "Canine Immunosterilization with a Porcine Zona Pellucida Vaccine," <i>Theriogenology</i> , 1998; Vol. 49, Issue 1, 262.
	C14	Chamberlin et al., "Human homolog of the mouse sperm receptor," <i>Proc. Nat'l Acad. Sci. USA</i> , 1990 Aug.; 87:6014-6018.
	C15	Crichton, <i>Inorganic Biochemistry of Iron Metabolism</i> , Ellis Horwood Limited, Sussex, England, 1991, Cover page, Publication page, Table of Contents, and Bibliography, 9pgs.
	C16	DeNardo, "Chapter 42: Dystocias," <i>Reptile Medicine & Surgery</i> , Mader ed., W.B. Saunders Co., Philadelphia, PA, 1996; 370-374.
	C17	Dietl et al., "Immunogenic potency of the zona pellucida," <i>Experientia</i> , 1982; 38:502-503.
	C18	Dietl et al., "Solubilization of four Porcine Zona pellucida Antigens by Lithium 3,5-Diiodosalicylate," <i>Hoppe-Seyler's Z. Physiol. Chem.</i> , 1982 April; 363:381-386.
	C19	Djerassi et al., "Planned Parenthood for Pets?" <i>Bull. Atomic Sci.</i> , 1973 Jan.; 29(1):10-19.
	C20	Dowsett et al., "A Preliminary Study of Immunological Castration in Colts," <i>J. Reprod. Fert. Suppl.</i> , 1991 July; 44:183-190.
	C21	Dubé et al., "Morphological Study of the Effects of an GnRH Agonist on the Canine Testis After 4 Months of Treatment and Recovery," <i>Acta. Endocrinol. (Copenh.)</i> , 1987; 116(3):413-417.
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	C23	East et al., "Monoclonal Antibodies to the Major Protein of the Murine Zona Pellucida: Effects on Fertilization and Early Development," <i>Developmental Biology</i> , 1984 July; 104(1):49-56.

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		Fayrer-Hosken, "Clinical trials of canine immunosterilization vaccine: porcine zona pellucida (pZP)," Proposal to the Humane Society of the United States (HSUS), undated. (13 pgs.).
	C25	Fayrer-Hosken et al., "Contraceptive potential of the porcine zona pellucida vaccine in the African elephant (<i>Loxodonta africana</i>)," <i>Theriogenology</i> , 1999 Oct. 1; 52(5):835-846.
	C26	Fayrer-Hosken et al., "Follicular Cystic Ovaries and Cystic Endometrial Hyperplasia in a Bitch," <i>JAVMA</i> , 1992 July 1; 201(1):107-108.
	C27	Fayrer-Hosken et al., "Immunocontraception of African elephants," <i>Nature</i> , 2000 Sept. 14; 407(6801):149.
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	C30	Feldmann et al., "Free-Roaming Urban Pets," <i>Health Services Reports</i> , 1973 Dec.; 88(10):956-962.
	C31	Garza et al., "Mechanism of ovarian autoimmunity: induction of T cell and antibody responses by T cell epitope mimicry and epitope spreading," <i>J. Reprod. Immunol.</i> , 1998; 37: 87-101.
	C32	Gilbert et al., "A method for separating the granulosa cells, the basal lamina and the theca of the preovulatory ovarian follicle of the domestic fowl (<i>Gallus domesticus</i>)," <i>J. Reprod. Fertil.</i> , 1977; 50:179-181.
<i>MS</i>	C33	Gupta et al., "Mapping of epitopes on porcine zona pellucida-3a by monoclonal antibodies inhibiting oocyte-sperm interaction," <i>Bio. Repro.</i> , 1996 Aug.; 55(2):410-415.


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<i>MS</i>	C34	Harris et al., "Cloning and characterization of zona pellucida genes and cDNAs from a variety of mammalian species: The ZPA, ZPB and ZPC gene families," <i>DNA Seq. - J. Seq. Map.</i> , 1994; 4(6):361-393.
	C35	Hasegawa et al., "Antifertility effect of active immunization with ZP4 glycoprotein family of porcine zona pellucida in hamsters," <i>J. Reprod. Immuno.</i> , 1992 Aug.; 22(2):197-210.
	C36	Hasegawa et al., "Blocking effect of antisera to recombinant zona pellucida proteins (r-ZPA) on <i>in vitro</i> fertilization," <i>AJRI</i> , 2000; 44:59-64.
	C37	Hopp et al., "Prediction of Protein Antigenic Determinants from Amino Acid Sequences," <i>Proc. Natl. Acad. Sci. USA</i> , 1981 June; 78(6):3824-3828.
	C38	Howarth, "Research Note: Avian sperm-egg interaction: perivitelline layer possesses receptor activity for spermatozoa," <i>Poult. Sci.</i> , 1990 June; 69(6):1012-1015.
	C39	"Imject® Maleimide Activated Carrier Proteins," Product Information. Pierce Chemical Company, Rockford, IL, 1997 March; 1-6.
		"Immunochemicals," Product Information, 2 pgs., Sigma Chemical Company, undated; 1274-1275.
	C40	Irwin et al., "Direct Injection of a Recombinant Retroviral Vector Induces Human Immunodeficiency Virus-Specific Immune Responses in Mice and Nonhuman Primates," <i>J. Virology</i> , 1994 Aug.; 68(8):5036-5044.
	C41	Jilek et al., "Antibodies Against Mouse Ovaries and Their Effect on Fertilization <i>In Vitro</i> and <i>In Vivo</i> in the Mouse," <i>J. Reprod. Fert.</i> , 1975; 42:377-380.
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<i>MS</i>	C43	Kaul et al., "Expression of bonnet monkey (<i>Macaca radiata</i>) zona pellucida-3 (ZP3) in a prokaryotic system and its immunogenicity," <i>Mol. Reprod. Dev.</i> , 1997 June; 47(2):140-7.

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<i>MS</i>	C44	Kirkpatrick et al., "Applications of pig zona pellucida immunocontraception to wildlife fertility control," <i>Journal of Reproduction and Fertility Supplement</i> , 1996, 50:183-189.
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	C50	Lee et al., "Identification and Structural Characterization of the 75-kDa Rabbit Zona Pellucida Protein," <i>J. Biol. Chem.</i> 1993 June 15;268(17):12412-12417.
	C51	Liu et al., "Contraception in mares heteroimmunized with pig zonae pellucidae," <i>J. Reprod. Fert.</i> , 1989; 85:19-29.
	C52	Lyons et al., "Expression and Structural Analysis of a Teleost Homolog of a Mammalian Zona Pellucida Gene," <i>J. Biol. Chem.</i> , 1993 Oct. 5;268(28):21351-21358.
	C53	Mahi-Brown et al., "Fertility Control in the Bitch by Active Immunization with Porcine Zonae Pellucidae: Use of Different Adjuvants and Patterns of Estradiol and Progesterone Levels in Estrous Cycles," <i>Biol. Reprod.</i> , 1985; 32:761-772.
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	C56	Miller et al., "Immunocontraception of white-tailed deer using native and recombinant zona pellucida vaccines," <i>Anim. Reprod. Sci.</i> , 2000; 63:187-95.
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	C60	Nassar et al., "Pet Population Dynamics and Community Planning for Animal Welfare and Animal Control," <i>JAVMA</i> , 1991 Apr. 1; 198(7):1160-1164.
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	C63	Ownby et al., "Antigens of the Hamster Ovary and Effects of Anti-Ovary Serum on Eggs," <i>Biology of Reproduction</i> , 1972; 6:310-318.
	C64	Paterson et al., "Analysis of the Contraceptive Potential of Antibodies against native and Deglycosylated Porcine ZP3 In Vivo and In Vitro," <i>Biology of Reproduction</i> , 1992; 10:523-534.
		"Plazvax TM Vaccine," Product Information. Mallinckrodt Veterinary, Inc., Mundelein, Ill. 2 pgs. (undated).
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<i>MS</i>	C66	Prasad et al., "Immunogenicity enhancement of recombinant rabbit 55-kilodalton zona pellucida protein expressed using the baculovirus expression system," <i>Biol. Reprod.</i> , 1995 May; 52(5):1167-78.
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	C68	Rudbach et al., "Chapter 13: Ribi Adjuvants: Chemistry, Biology and the Utility in Vaccines for Human and Veterinary Medicine," <i>The Theory and Practical Application of Adjuvants</i> , D.E.S. Stewart-Tull, Ed., John Wiley & Sons, New York, 1995; 287-313.
	C69	Sacco et al., "Carbohydrate influences the immunogenic and antigenic characteristics of the ZP3 macromolecule (M _r 55 000) of the pig zona pellucida," <i>J. Reprod. Fert.</i> , 1986; 76:575-585.
	C70	Sacco et al., "Effect of Varying Dosages and Adjuvants on Antibody Response in Squirrel Monkeys (<i>Saimiri sciureus</i>) Immunized With the Porcine Zona Pellucida, M _r =55,000 Glycoprotein (ZP3)," <i>American Journal of Reproductive Immunology</i> , 1989 Sept.; 21(1):1-8.
	C71	Sacco et al., "Heteroimmunization of squirrel monkeys (<i>Saimiri sciureus</i>) with a purified porcine zona antigen (PPZA): immune response and biologic activity of antiserum," <i>Fertility and Sterility</i> , 1983 March; 39(3):350-358.
	C72	Sacco et al., "Porcine zona pellucida: association of sperm receptor activity with the α -glycoprotein component of the M _r =55,000 family," <i>Biol. Reprod.</i> , 1989; 41:523-32.
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<i>MS</i>	C74	Santhanam et al., "Dog Zona Pellucida Glycoprotein-3 (ZP3): Expression in <i>Escherichia coli</i> and Immunological Characterization," <i>Prot. Expres. Purif.</i> , 1998 Apr.; 12(3):331-339.

EXAMINER <i>Michael Sp...</i>	Date Considered <i>9/8/04</i>
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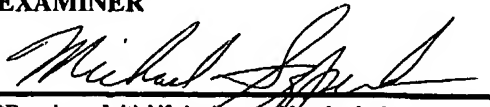
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INFORMATION DISCLOSURE STATEMENT FEB 1 6 2003	Atty. Docket No.: 235.00310101	Serial No.: 10/019,642
	Applicant(s): Fayrer-Hosken et al.	Confirmation No.: 1056
	Filing Date: February 1, 2002 (Int'l Filing Date: June 30, 2000)	Group: 1614
	Information Disclosure Statement mailed:	February 11, 2003

Examiner Initial		Document Description
MS	C75	Shille et al., "Current Concepts in Reproduction of the Dog and Cat," <i>Advances in Veterinary Science and Comparative Medicine XXIV</i> , Brandley et al., eds., Academic Press, New York, 1980; 24:211-243.
	C76	Shivers et al., "Inhibition of Sperm-Egg Interaction by Specific Antibody," <i>Science</i> , 1972 Dec.; 178(4066):1211-1213.
	C77	Shivers, "The Zona Pellucida as a Possible Target in Immunocontraception," <i>Immunological Influence on Human Fertility</i> , Boettcher, ed., Academic Press, New York, 1977; 13-24.
	C78	Shimizu et al., "In Vitro Biosynthesis of Three Sulfated Glycoproteins of Murine Zonae Pellucidae by Oocytes Grown in Follicle Culture," <i>J. Biol. Chem.</i> , 1983 May 10;258(9):5858-5863.
	C79	Skinner et al., "Use of immunoaffinity purified antibodies to zona pellucida to compare alloimmunization of male and female rabbits," <i>J. Reprod. Immunol.</i> 1987; 12:81-92.
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	C80	Takeuchi et al., "A 42-kDa glycoprotein from chicken egg-envelope, an avian homolog of the ZPC family glycoproteins in mammalian zona pellucida," <i>Eur. J. Biochem.</i> , 1999;260:736-742.
	C81	Taya et al., "Cloning of a cDNA coding for porcine zona pellucida glycoprotein ZP1 and its genomic organization," <i>Biochem. Biophys. Res. Commun.</i> , 1995 Feb. 15; 207(2):790-9.
	C82	Thompson et al., "Immunogenicity & reactogenicity of a recombinant HPV6 fusion protein vaccine adjuvanted with monophosphoryl lipid A," <i>Biochemical Society Transactions</i> , 1997 May; 25(2):274S.
	C83	Tian et al., "Xenopus laevis sperm receptor gp69/64 glycoprotein is a homolog of the mammalian sperm receptor ZP2," <i>Proc. Natl. Acad. Sci. USA</i> , 1999 Feb.; 96:829-34.
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	Applicant(s): Fayrer-Hosken et al.	Confirmation No.: 1056
	Filing Date: February 1, 2002 (Int'l Filing Date: June 30, 2000)	Group: 1614
Information Disclosure Statement mailed:		February <u>11</u> , 2003

Examiner Initial		Document Description
<i>MS</i>	C85	Tsuda et al., "Isolation and characterisation of a chicken egg coat 97kDa glycoprotein: the chicken homologue of zona pellucida glycoprotein B (ZPB)," <i>Zygote</i> , 1998; 6(suppl. 1):s94-s95. ✓
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	C89	Voller et al., "Chapter 17: Enzyme-Linked Immunosorbent Assay," <i>Manual of Clinical Laboratory Immunology</i> , Third Edition, American Society for Microbiology, Washington, D.C., 1986; 99-109.
	C90	Waclawek et al., "The chicken homologue of zona pellucida protein-3 is synthesized by granulosa cells," <i>Biology of Reproduction</i> , 1998; 59:1230-1239. ✓
	C91	Willis, "Analysis of Culture Requirements for in vitro Maturation of Equine Oocytes," Graduate Thesis, University of Georgia, 1990, Cover page, Title page, and Table of Contents only, 8 pgs.
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	C93	Wood et al., "Effect of alloimmunization and heteroimmunization with zonae pellucidae on fertility in rabbits," <i>Biol. Reprod.</i> , 1981 Sept.; 25(2):439-450.
	C94	Yamasaki et al., "Genomic organization of the gene for pig zona pellucida glycoprotein ZP1 and its expression in mammalian cells," <i>J. Reprod. Fertil. Suppl.</i> , 1996; 50:19-23.
<i>MS</i>	C95	Yang et al., "cDNA cloning and sequence analysis of the <i>Xenopus laevis</i> egg envelope glycoprotein gp43," <i>Dev. Growth Differ.</i> , 1997 Aug.; 39(4):457-467.


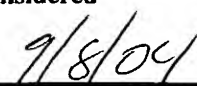
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Information Disclosure Statement mailed:		February <u>11</u> , 2003

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MS	C96	Yonezawa et al., "Binding of pig sperm receptor in the zona pellucida to the boar sperm acrosome," <i>J. Reprod. Fertil.</i> , 1995 Jan.; 103(1):1-8.
	C97	Yonezawa et al., "Involvement of N-linked carbohydrate chains of pig zona pellucida in sperm-egg binding," <i>Eur. J. Biochem.</i> , 1995 Oct.; 233(1):35-41.
	C98	Yonezawa et al., "Localization of neutral N-linked carbohydrate chains in pig zona pellucida glycoprotein ZPC," <i>Eur. J. Biochem.</i> , 1999; 260:57-63.
	C99	Young et al., "Efficient isolation of genes by using antibody probes," <i>Proc. Natl. Acad. Sci. USA</i> , 1983 March; 80(5):1194-1198.
	C100	Yurewicz et al., "Nucleotide sequence of cDNA encoding ZP3 α , a sperm-binding glycoprotein from zona pellucida of pig oocyte," <i>Biochimica Biophysica Acta.</i> , 1993 Aug. 19; 1174(2):211-4.
MS	C101	Yurewicz et al., "Structural Characterization of the M _r = 55,000 Antigen (ZP3) of Porcine Oocyte Zona Pellucida" <i>Journal of Biological Chemistry</i> , 1987 Jan. 15; 262(2):564-571.

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